

Appendix G

**2016 SR 150 and Koenigstein Road Analysis and
Ventura County Analysis Review Memorandum**



ASSOCIATED TRANSPORTATION ENGINEERS

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Since 1978

Richard L. Pool, P.E.
Scott A. Schell, AICP, PTP

July 26, 2016

16060L05.WPD

Mr. Scott Price
Mirada Petroleum
15500 West Telegraph Road, Suite D#32
Santa Paula, California 93060

STATE ROUTE 150 AND KOENIGSTEIN ROAD ANALYSIS, VENTURA COUNTY, CALIFORNIA

Pursuant to your request, Associated Transportation Engineers (ATE) is providing the following evaluation for the State Route 150/Koenigstein Road intersection as it relates to the use of tanker trucks. ATE has conducted a field review of the intersection to determine the sight distance, evaluated collision data and existing traffic volumes on State Route 150. ATE evaluated the intersection based on the use by oil tanker trucks which will not exceed the legal limits. Oversized trucks would required to have a valid Transportation Permit.

Sight Distances. ATE conducted a field review to determine if sufficient sight distance exists for tanker trucks at the State Route 150/Koenigstein Road intersection. The Caltrans Highway Design Manual¹ sight distance standards were used for the sight distance analysis. The segment of State Route 150 is rolling and posted 35 MPH. Based on Caltrans criteria, the minimum required sight distance standard for a 35 MPH design speed is 250 feet.

The sight distance looking east along State Route was measured at 350 feet, in excess of the 250-foot minimum. The sight distance looking west along State Route 150 was measured at 500 which also exceeds the 250-foot minimum. The measured sight distance at the State Route 150/Koenigstein Road intersection exceeds the minimum site distance standard.

Collision Data. ATE reviewed the Caltrans collision data for the State Route 150/Koenigstein Road intersection contained in Appendix F of the December 2015 Subsequent Environmental Report for the Mirada Oil and Gas Project - Nesbitt Lease. The collision data covers a 12-year period from 2002 to 2013. The collision data is attached. There were 2 collisions with no reported fatalities and none involved large trucks.

**County of Ventura
Board of Supervisors
PL15-0060**

**Exhibit 16 – Attachment C
Associated Traffic Engineers Traffic
Report**

¹ Highway Design Manual, Caltrans, 6th Edition.

Roadway Operation. Current traffic counts show that State Route 150 carries 2,800 vehicles per day in the vicinity of the project site. Existing traffic volumes and levels of service are summarized in Table 1. Levels of service are based on Ventura County engineering design capacities, which show that 2-lane highway such as State Route 150 has the capacity to carry approximately 11,000 vehicles per day.

**Table 1
Traffic Volumes and Levels of Service**

Roadway Segment	Roadway Classification	Roadway Capacity	Existing	
			ADT	LOS
State Route 150	Class II	11,000 ADT	2,800	LOS B

Note: LOS based on Ventura County Standard Engineering Design Capacities.

State Route 150 in the study-area roadways currently operates at LOS B. With the addition of less than 3 tanker trucks per day from the Agnew and Nesbitt CUP Modifications, State Route 150 would continue to operate at LOS B. LOS B represents relatively free flow operations with no congestion.

CONCLUSION

The operation of the Koenigstein Road/Highway 150 intersection has not exhibited any safety issues over the past 20 years. This observation is based upon data we collected and/or obtained this year.

It is ATE's staff conclusion that the intersection will continue to operate satisfactorily based upon the accident record data, where there were two accidents noted (neither involved tanker trucks), over a 12-year period. Koenigstein Road has a low traffic volume, the sight distance at the intersection in both directions, as measured, meets or exceeds the Caltrans value for the prevailing speed. ATE also reviewed the intersection geometry. The proposed addition of less than 3 one-way tanker trips per day through this intersection will not alter this condition. The expected tanker trucks utilized by the project will not exceed the legal limits. Oversized trucks would be required to have a valid Transportation Permit.

Associated Transportation Engineers



By: Richard L. Pool, P.E.
President



Attachment: Collision Data

Report run on: 11/12/2014

Total Count: 2

141234 2002 - AV 2013/2014 COLLISIONS ON RT 150 (OJAI/SANTA PAULA RD) WITHIN 200 FT OF KOENIGSTEIN RD , IN VENTURA COUNTY.

Case Page

Primary Rd RT 150 Distance (ft) 1 Direction Secondary Rd KOENIGSTEIN RD NCP 9765 State Hwy Y Pctile 150 Postmile Prefix Postmile 26.141 Side of Hwy W
 City UNINCORP. County VENTURA Population 9 Rpt Dist Beat 044 Type 1 CalTrans Dist 7 Budge 011408 Collision Date 20071102 Time 1410 Day FRU
 Primary Collision Factor UNSAFE SPEED Violation 22350 Collision Type SIDESWIPE Severity INJURY # Killed 0 # Injured 1 Tow Away? N Process Date 20080718
 Weather1 CLEAR Weather2 Motor Veh Involved With OTHER MV Rwy Surface DRY Rwy Cond1 NO UNUSL CND Rwy Cond2
 Hit and Run Lighting DAYLIGHT Ped Actiou

PARTY INFO

Party	Type	Age	Sex	Race	Subriety1	Subriety2	Movs Prs	Loc Dir	SW Veh	Chr Veh	Make	Year	Sp/In	DAF1	View	DAF2	Safety Equip	Rwy	Ext of Rwy	Age	Sex	Seat Pos	Safety Equip	Subriety	
1F	DRVR	17	M	W	HNBD		PROC ST	E	D		FORD	1999	3	F			M	G							
2	DRVR	44	M	W	HNBD		LFT TURN	E	A		BMW	2000	3	N			M	G							

Motor Veh Involved With OTHER MV
 Direction N Secondary Rd RT 150
 City UNINCORP. County VENTURA Population 9 Rpt Dist Beat 004 Type 3 CalTrans Dist 7 Budge 14736 Collision Date 20081015 Time 0805 Day FRU
 Primary Collision Factor DRVR ALCJDRG Violation 23152A Collision Type HIT OBJECT Severity INJURY # Killed 0 # Injured 3 Tow Away? Y Process Date 20101228
 Weather1 CLEAR Weather2 Motor Veh Involved With FIXED OBJ Rwy Surface DRY Rwy Cond1 NO UNUSL CND Rwy Cond2
 Hit and Run Lighting DAYLIGHT Ped Actiou

PARTY INFO

Party	Type	Age	Sex	Race	Subriety1	Subriety2	Movs Prs	Loc Dir	SW Veh	Chr Veh	Make	Year	Sp/In	DAF1	View	DAF2	Safety Equip	Rwy	Ext of Rwy	Age	Sex	Seat Pos	Safety Equip	Subriety	
1F	DRVR	42	M	B	HBD-UJ		UNS TURN	S	A		LEXUS	2004	3	A	22107		L	G							

Motor Veh Involved With
 Direction N Secondary Rd RT 150
 City UNINCORP. County VENTURA Population 9 Rpt Dist Beat 004 Type 3 CalTrans Dist 7 Budge 14736 Collision Date 20081015 Time 0805 Day FRU
 Primary Collision Factor DRVR ALCJDRG Violation 23152A Collision Type HIT OBJECT Severity INJURY # Killed 0 # Injured 3 Tow Away? Y Process Date 20101228
 Weather1 CLEAR Weather2 Motor Veh Involved With FIXED OBJ Rwy Surface DRY Rwy Cond1 NO UNUSL CND Rwy Cond2
 Hit and Run Lighting DAYLIGHT Ped Actiou



**PUBLIC WORKS AGENCY
TRANSPORTATION DEPARTMENT
Traffic, Advance Planning & Permits Division**

MEMORANDUM

DATE: July 26, 2016

TO: RMA – Planning Division
Attention: Brian Baca

FROM: Transportation Department *AB*

**SUBJECT: REVIEW OF TRAFFIC STUDY
PROJECT NO: PL 13-0158 (CUP 3543)
PERMITTEE: Mirada Petroleum, Inc.
Property Owner: South Mountain Resources, LTD.
Traffic Study for State Route 150 and Koenigstein Road.
APN 040-0-220-165**

Pursuant to your request, the Public Works Agency Transportation Department (PWATD) has reviewed the Traffic Study by the Associate Transportation Engineers (ATE) dated July 26, 2016, for the Mirada Petroleum Project.

We offer the following comment:

1. The PWATD concurs with the findings in the Traffic Study.

Our review is limited to the items listed in the Traffic Study for the impacts this project may have on the County's Regional Road Network.

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