<u>District 1</u> 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia. NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III

1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico

Form C-101 Revised August 1, 2011

Permit

HOBBS OCD Energy Minerals and Natural Resources Oil Conservation Division

NOV 1 3 2012

1220 South St. Francis Dr.

Santa Fe, NM 87505

Phone: (303) 476-			RECE							
			Operator Name	T TO DRILL	<u>, RE-ENTE</u>	CR, DEEP	EN, PLUGBA	ACK, O	OR ADD A ZONE	
Fasken C			h, Ltd.					151416		
303 W. W Midland,		-	e. 1800		•		30 10	API Nur	10942	
· * Prope	rty Code		1		erty Name				° Well No.	
-389	41365	547		Quai1	"16" Stat	e			7H	
				⁷ Su	rface Loca	tion				
UL - Lot	Section	on Township Range Lot Idn Feet from N/S Line Feet From			Feet From	E/W Line	e County			
P.	16	20S	34E	2	00')' South 225'			Lea	
				⁸ Po	ol Informa	tion				
T D			D 1 0-1						,	
Lea; B	one Sp	ring	Pool Code		al Well Info	rmation				
⁹ Work	Type		16 Well Type		Cable/Rotary		¹² Lease Type	13	Ground Level Elevation	
N			O		R		s /		3642' GL	
¹⁴ Mu		1.5	15 Proposed Depth	16 O / E 1 my	Formation	na Patri	17 Contractor		18 Spud Date	
Depth to Groun	d water	15,		0,945 TVD		ng ratiti		o nearest sur	7-10-2013	
									Tace water	
		- 1		Proposed Cas	sing and Ce	ment Pro	gram		r :: :	
Type		Size	Casing Size	Casing Weight/	ght/ft Setting Depth		Sacks of C		Estimated TOC	
Surface	17 1		13 3/8"	48 & 54.5		1600'		"C"	Surface	
Inter.	12 1	<u>/4" </u>	9 5/8"	36 & 40		5200'		LC & "(<u>'' Surface</u> 'C''	
Prod.	8 3	7/11	5 1/2"	17		DV Tool @ 4000'		HLC & 'Versace		
	 	' 	3 1/2			,521	2030 32	VELSACE	3000	
		J.	Casir	ig/Cement Pro	oram: Ado	litional Co				
				ig/ Coment i i	7 <u>51 um. 11u</u>	mionar ex	. 77	ires 2 Y	ears From Appro	
							Hermin Kar	mless D	rilling Underway	
		.,,]	Proposed Blow	out Preven	tion Prog	ram			
	Туре		\	Working Pressure	٠	Test Pres	sure	Manufacturer		
Annı	ılar		5	000		2500		·	Schaffer	
Doub	leram		5	000		5000		Schaffer		
of my knowle	dge and bel	ief.		and complete to the b	est	OIL C	ONSERVAT			
			pit will be construc I permit □, or an (ted according to (attached) alternativ	e l	 				
OCD-approv	ed plan 🗌	[.]			Approved	By		/ ><		
		licati	lon Attached	l •	·-		- Comment			
Printed name:	Kim '	Tyson,	Kin my	ขวา		Petroleum	Engineer	· 		
Title:	Regu.	latory	Analyst		Approved	Date EB	0-1-20 +3 [£] ×	piration Dat	e:	
E-mail Addres	ss: ki	mt@for	1.com							
Date: 11-8	- 2012		Phone: 432	2-687-1777	Conditions	of Approval At	tached	,		

DISTRICT I
1025 N. French Dr., Hobbs, NM 88240
Phone (575) 393-8161 Fax: (575) 393-0720
DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (575) 748-1283 Fax: (575) 748-9720

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone (505) 334-6176 Fax: (505) 334-6170

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone (505) 478-3460 Fax: (505) 478-3462 State of New Mexico Energy, Minerals and Natural Resources Department FOBBS OCD Revised August 1, 2011

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION 1 3 2012

1220 South St. Francis Dr. Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

MON TO SOIS

RECEIVED

☐ AMENDED REPORT

Form C-102

API Number	Pool Code	Pool Name	
301)25 40942	37570	Lea; Bone Spring	
Property Code		Property Name	Well Number
13654N	QU.	AIL STATE 16	7H
OGRID No.		Operator Name	Elevation
151416	FASKEN C	IL AND RANCH, LTD	3642'

Surface Location

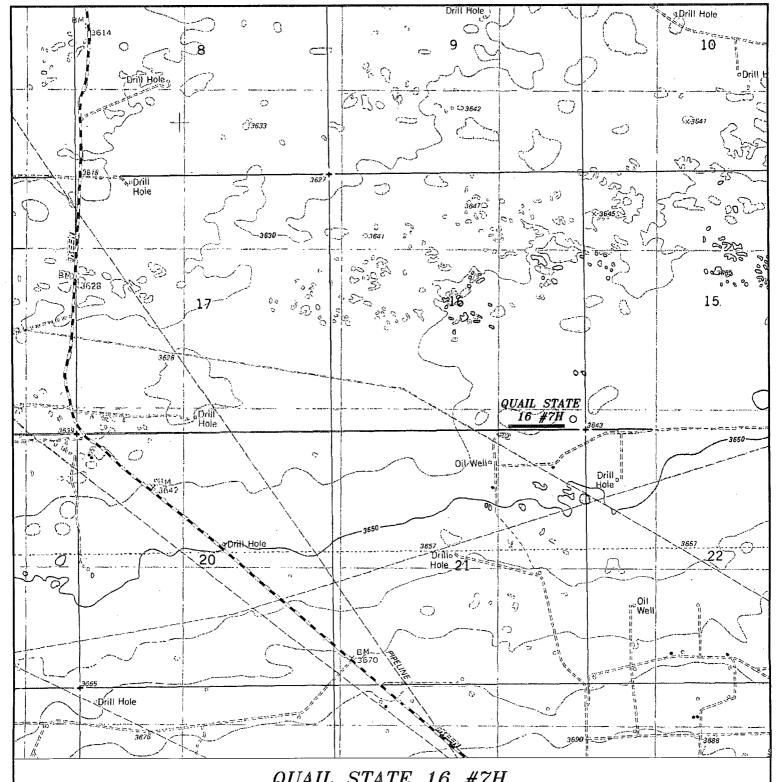
١										
	Р	16	20 S	34 E		200	SOUTH	225	EAST	LEA
	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	16	20 S	34 E		330	NORTH	330	EAST	LEA
Dedicated Acres Joint or Infill		r Infill Co	nsolidation (Code Ore	der No.				
160	•						_		

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

N. 575725.09 E. 775270.58	N. 575729.96 E. 777924.30	PROPOSED BOTTOM HOLE LOCATION Lat - N 32°34'46.06" Long - W 103°33'27.84" NMSPCE - N 575409.767 E 780242.913 (NAD-83)	N. 575741.08 E. 780570.43	330	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.
N. 573083.39 E. 775289.82	 			4749.7'	Signature Date Kim Tyson Printed Name kimt@for1.com Email Address SURVEYOR CERTIFICATION
		 			I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison and that the same is true and correct to the best of my belief.
	 	SURFACE LOCATION Lat - N 32*33*59.08" Long - W 103*33*26.61" NMSPCE - N 570662.081 E 780382.620 (NAD-83)	Penetrution Point		Date street Signature & Seal of Professional Surgery Certificate No. Gary L. Jones 7977
N. 570444.19 E. 775311.17	N. 570458.31 E. 777959.66	<u> </u>	N.'570462.45 225'—— E.780609.09	5	Basin surveyS 27457



QUAIL STATE 16 #7H
Located 200' FSL and 225' FEL
Section 16, Township 20 South, Range 34 East,
N.M.P.M., Lea County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (575) 393—7316 — Office (575) 392—2206 — Fax basinsurveys.com W.O. Number: KJG - 27457

Survey Date: 09-26-2012

Scale: 1" = 2000'

Date: 10-10-2012

FASKEN OIL AND RANCH, LTD

FASKEN OIL AND RANCH, LTD.

303 W. WALL AVE.

SUITE 1800

MIDLAND, TEXAS 79701-5116

CONTINGENCY PLAN FOR HYDROGEN SULFIDE DISCHARGE

DRILLING OPERATIONS

CONTINGENCY PLAN FOR HYDROGEN SULFIDE DISCHARGE

DRILLING OPERATIONS

HYDROGEN SULFIDE PHYSICAL PROPERTIES AND TOXICITY - Hydrogen sulfide is extremely toxic. The acceptable concentration for eight-hour exposure is 20 ppm, which is .002% by volume. Hydrogen sulfide is heavier than air (specific gravity - 1.192) and is colorless. It forms an explosive mixture with air between 4.3 and 46.0 volume percent. Toxicity data for hydrogen sulfide and various gasses are compared in the table below.

I.

Common Name	Chemical Formula	Sp. Gravity (Air =1)	Threshold Limit	Hazardous Limit	Lethal Conc.
Hydrogen Cyanide	HCN	0.94	10 ppm	150 ppm	300 ppm
Hydrogen Sulfide	H₂S	1.18	10 ppm * 20 ppm **	250 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21	5 ppm		1000 ppm
Chlorine	Cl_2	2.45	1 ppm	4 ppm/hr	1000 ppm
Carbon Monoxide	со	0.97	50 ppm	400 ppm/hr	1000 ppm
Carbon Dioxide	CO ₂	1.52	5000 ppm	5%	10%
Methane	CH₄	0.55	9%	Combustabe above 5% in air	 .

^{*}Threshold Limit - concentration at which it is believed that all workers may be repeatedly exposed day after day without adverse effects, 10 ppm = 1972 ACGIH concentration (American Conference of Governmental Industrial Hygienist).

^{**}Threshold Limit = 20 ppm - 1966 ANSI acceptable ceiling concentration for eight-hour exposure (based on a 40-hour week) per OSHA Rules and Regulations (Federal Register, Vol. 37, #202, Part II, dated October 18, 1972.

PHYSICAL EFFECTS OF HYDROGEN SULFIDE - The physiological effects of hydrogen sulfide are summarized in the table below.

Percent Vol.	Concentration ppm	Physical Effects
0.001	10	obvious and unpleasant odor.
0.002	20	Safe for 8-hour exposure.
0.01	100	Kills smell in 3 to 15 minutes, may sting eyes and throat.
0.02	200	Kills smell shortly, stings eyes and throat.
0.05	500	Dizziness, breathing ceases in a few minutes, needs prompt artificial resuscitation.
0.07	700	Unconscious quickly, death will result if not rescued promptly.
0.10	1000	Unconscious at once, followed by death within minutes.

- III. ACCIDENTAL RELEASE OF HYDROGEN SULFIDE The possible release of hydrogen sulfide gas could result from leakage at either wellhead, flow lines, separators or drill string at this drilling location.
 - A. In the event of an accidental release, the tool pusher, supervisor or agent of the operator in the vicinity at the time of the discharge will be in charge of all activities on the ground and shall be responsible for the following.
 - Notify all personnel, Company or outside, that are in the area to evacuate as soon as possible. This includes drilling rig crews, roustabout gangs, supervisory personnel, maintenance personnel, sales representatives, farm or ranch hands, visitors and all others that may be in the vicinity.
 - Notify the County Sheriff's office, and the Department of Public Safety, and request their assistance to provide road blocks and direct traffic away from the drilling location. They should also be asked to assist in the evacuation of residents, if any, in affected area.
 - Alert local Hospital and Fire Department in the event that medical services or ambulance assistance is needed.

- 4. Call the Operations Manager in the Midland Office and advise him of the nature and extent of the emergency situation.
- B. Operations Manager or his assistant will notify the appropriate state and federal agencies that the contingency plan has been activated and what level and type of reaction has already been initiated.
- C. Fasken's Senior Representative or employee on the scene will be in charge and shall initiate measures necessary to bring the gas flow under control securing whatever additional personnel and equipment are necessary to control the flow in the shortest time thereby reducing potential exposure of the general public to hydrogen sulfide.
- IV. **WEATHER CONDITIONS** During adverse weather conditions such as drizzle, rain, fog, calm winds, and snow, hydrogen sulfide collects in low lying areas. These areas should be avoided, any personnel in such areas should be evacuated, and law enforcement personnel should be requested to keep people and traffic from entering. Should moderate, undirectional winds be blowing hydrogen sulfide from the source of the discharge toward a populated area, residents and other personnel should be evacuated by law enforcement personnel who should then maintain an exclusion perimeter to avoid people from reentering the area until the emergency is over.
- V. TERMINATION OF EMERGENCY AND FOLLOW-UP PROCEDURES Fasken's Senior Representative or employee on the scene, with the cooperation of the Senior Law Enforcement Officer in whose jurisdiction the emergency occurred, will declare the emergency terminated when there is no further danger to oilfield personnel or general public. This will occur only after a sufficient number of gas measurements in the vicinity have been made by a qualified technician showing that hydrogen sulfide concentration is below the 20 ppm threshold. In addition, the Operator's Senior Representative or employee will perform the following duties connected with the emergency:
 - A. Notify all cooperating law enforcement agencies and emergency medial services that the emergency has been terminated.
 - B. Notify all evacuees that they may return safely to their residences or job sites.
 - C. Make an estimate of damages and/or expenses incurred in the control of the emergency, the evacuation of any persons and the destruction of property, if any, including domestic animals and livestock. He is to make an itemized list of all such damages and/or expenses along with their addresses, and any other specific information pertinent to the situation. He is to deliver this list to the Operations Manager as soon as possible.
 - D. <u>UNDER NO CIRCUMSTANCE</u> are damage estimates, names of affected personnel, if any, or any other information pertaining to the emergency to be given to the press. Public information regarding the emergency will be issued by headquarters office in Midland, Texas.
- VI. Copies of the Contingency Plan are available in Fasken's office in Midland, Texas.
- VII. This plan is subject to approval of the state and federal agencies and shall be revised as required.

Fasken Oil and Ranch, Ltd.

H2S Contingency Plan

Emergency Phone Numbers

Quail "16" State No. 7H

Fasken Oil and Ranch, Ltd.	432 687-1777
Key Personnel	
Tommy Taylor, Drilling Manager Cory Frederick, Drilling Engineer Deryl Briles, Drilling Foreman Jimmy Davis, Operations Manager	432 556-2228 432-288-0086 432 556-4269 432 557-5668

Hobbs, Lea County, New Mexico

Ambulance	911
State Police	911 or 575 392-5580
Sheriff's Office	911 or 575 396-3611
Fire Department	911 or 575 397-9308
Local Emergency Planning Committee	575 393-2870
New Mexico Oil Conservation Division	575 393-6161

Carlsbad, Eddy County, New Mexico

Ambulance	911
State Police	911 or 575 885-3138
Sheriff's Department	911 or 575 887-7551
Fire Department	911 or 575 885-3125
Local Emergency Planning Committee	575 887-7553
Bureau of Land Management	575 887-6544
New Mexico Oil Conservation Division (Artesia)	575 748-1283

Statewide and National Emergency Numbers

New Mexico Department of Homeland Security

And Emergency Management 505 476-9600

New Mexico State Emergency Operations

Center (24 Hour Number) 505 476-9635

National Emergency Response Center 800 424-8802

Other Numbers for Emergency Response

Boots & Coots IWC 800 256-9688 or 281 931-8884

Cudd Pressure Control 432 563-3356

MCH Care Star Flight Service (air ambulance) 432 640-4000

Aerocare (air ambulance) 806 725-1111

Job Number:

Company: Fasken Oil and Ranch, Ltd. Lease/Well: Quail State 16 No. 7H Location: Sec. 16, T20S-R34E Rig Name: Patrion Rig No. 5 State/County: New Mexico/ Lea

Country: USA API Number: Elevation (To MSL): 0.00 ft

RKB: 0.00 ft

Projection System: US State Plane 1927 (Exact solution)

Projection Group: Texas Central 4203 Projection Datum: CLARKE 1866 Magnetic Declination: 3.15 Grid Convergence: 2.41208 E Date: Tuesday, October 30, 2012

Calculated by HawkEye Software Minimum Curvature Method Vertical Section Plane 358.73°

Northing (US ft): 810940.54 Easting (US ft): 3455231.48 Latitude: 31°48'43.5024" N Longitude: -95°38'50.7877" W

Direction Reference: Grid North

Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	EW (Ft)	NS (Ft)	VS (Ft)	Closure (Ft)	Walk Rate °/100Ft	Build Rate °/100Ft	DLS °/100Ft	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
9817.13	0.00	0.00	9817.13	0.00	0.01	0.01	0.01				
9822.13		269.99	9822.13	-0.01	0.01	0.01		-1801.77			
9827.13		269.99	9827.13	-0.01 -0.05	0.01	0.01	0.01				
9832.13		269.99	9832.13	-0.10	0.01	0.01	0.10				
9837.13		269.99	9837.13	-0.19	0.01	0.01	0.19				
9842.13		269.99	9842.13	-0.29	0.01	0.01	0.29				
9847.13		269.99	9847.13	-0.42	0.01	0.02	0.42				
9852.13		269.99	9852.12	-0.57	0.01	0.02	0.57	0.00	5.31		
9857.13		269.99	9857.12	-0.74	0.01		0.74				
9862.13		269.99	9862.12	-0.94	0.01	0.03	0.94				1
9867.13		269.99	9867.11	-1.16	0.01	0.03	1.16				
9872.13		269.99	9872.11	-1.40	0.01	0.04	1.40				
9877.13		269.99	9877.10	-1.67	0.01	0.05	1.67	0.00			
9882.13		269.99	9882.09	-1.96	0.01	0.05	1.96				
9887.13		269.99	9887.08	-2.27	0.01	0.06	2.27				
9892.13		269.99	9892.07	-2.61	0.01	0.07	2.61				
9897.13		269.99	9897.06	-2.96	0.01	0.07	2.96				
9902.13		269.99	9902.04	-3.35	0.01	0.08	3.35			5.31	
9907.13	4.78	269.99	9907.03	-3.75	0.01	0.09	3.75		5.31		
9911.30		269.99	9911.18	-4.11	0.01	0.10					Begin Hold @ 5.00°,269.99
10552.56		269.99	10550.00	-60.00	0.00	1.32					EOP @ 10550.00 Ft TVD
10572.56		299.84	10569.91	-61.75	0.50	1.87				14.52	
10592.56		318.62	10589.78	-63.53	2.02	3.43				3 14.52	
10612.56	10.13	329.34	10609.53	-65.32	4.55	5.99	65.47	53.62	11.95	14.52	
10632.56		335.87	10629.13	-67.12	8.07	9.56	67.60			14.52	
10652.56		340.18	10648.53	-68.92	12.59	14.11	70.06			14.52	
10672.56		343.22	10667.67	-70.73	18.09	19.65				1 14.52	
10692 56		345.48	10686.51	-72.53	24.56	26.16	76.57			14.52	
10712.56	23.84	347.22	10705.00	-74.32	31.98	33.61	80.91	8.72	14.13	3 14.52	
10732.56		348.62	10723.08	-76.10	40.32	41.99	86.12			14.52	
10752.56	29.54	349.76	10740.72	-77.87	49.58	51.29	92.31			14.52	
10772.56		350.72	10757.87	-79.61	59.72	61.46	99.52			14.52	
10792.56		351.53	10774.48	-81.32	70.72	72.50	107.77			14.52	
10812.56		352.24	10790.51	-83.01	82.55	84.37	117.07			14.52	
10832.56	41.02	352.87	10805.93	-84.66	95.19	97.04	127.39	3.12	14.38	3 14.52	
10852.56		353.42	10820.68	-86.26	108.59	110.47	138.68			14.52	
10872.56		353.92	10834.74	-87.83	122.73	124.64	150.92			14.52	
10892.56		354.38	10848.06	-89.35	137.56	139.50	164.03			14.52	
10912.56		354.80	10860.62	-90.82	153.05	155.02	177.97			2 14.52	
10932.56	55.43	355.18	10872.38	-92.23	169.17	171.17	192.68	1.93	14.43	3 14.52	
10952.56		355.54	10883.31	-93.58	185.86	187.89	208.09			14.52	
10972.56		355.88	10893.38	-94.87	203.09	205.14	224.16			14.52	

Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	EW (Ft)	NS (Ft)	VS (Ft)	Closure (Ft)	Walk Rate °/100Ft	Build Rate °/100Ft	DLS °/100Ft	Comment
10992.56	64.10	356.20	10902.57	-96.10	220.81	222.88	240.82	1.60	14.45	14.52	
11012.56	66.99	356.51	10910.85	-97.25	238.98	241.07	258.01	1.53	14.45		
11032.56	69.88	356.80	10918.20	-98.34	257.54	259.65	275.68	1.46	14.45	14.52	
11052.56	72.77	357.08	10924.60	-99.35	276.46	278.59	293.77	1.41	14.45	14.52	
11072.56	75.66	357.36	10930.04	-100.28	295.68	297.83	312.22	1.37	14.46		
11092.56	78.55	357.62	10934.51	-101.14	315.16	317.31	330.99	1.33	14.46	14.52	
11112.56	81.44	357.88	10937.98	-101.91	334.83	337.01	350.00	1.30	14.46	14.52	
11132.56	84.33	358.14	10940.46	-102.60	354.67	356.85	369.21	1.28	14.46	14.52	
11152.56	87.23	358.39	10941.93	-103.20	374.60	376.79	388.56	1.27	14.46	14.52	
11172.56	90.12	358.65	10942.39	-103.72	394.59	396.78	407.99	1.27	14.46	14.52	
11174.58	90.41	358.67	10942.38	-103.76	396.61	398.80	409.96	1.26	14.46	14.52	Penetration Point
11227.99	90.41	358.67	10942.00	-105.00	450.00	452.21	462.09	0.00	0.00		
11232.99	90.42	359.40	10941.96	-105.08	455.00	457.21	466.98	14.45	0.18		
11237.16	90.43	0.00	10941.93	-105.11	459.17	461.38	471.05	14.52	0.18	14.52	
15527.11	90.43	0.00	10910.00	-105.00	4749.00	4750.16	4750.16	0.00	0.00	0.00	Lateral Terminus

RKB:0ft Company: Fasken Oil and Ranch, Ltd. Elevation (To MSL): 0 ft Location : Sec. 16, T20S-R34E Field: API JOB#: Township: Rig Name : Patrion Rig No. 5 Range : SECTION: State/Province : New Mexico County/Parish: Lea Country: USA **Vertical Section Plot Horizontal Plot** 10000 -2000 0 2000 4000 6000 5000 -5000 -5000 -5000 6000 6000 4000 4000 Ν е 0 2000 5000 2000 h **a** 10000 10000 S 0 D 15000 -2000 -2000 15000 20000 20000 -4000l -4000 -5000 5000 10000 -2000 0 2000 4000 6000 Vertical Section (358.73°) West - East

2000 ft/Divison

5000 ft/Divison

22-141 50 SHEETS