Reviewer D Carruthers
Date 11/8/15

Form/Permit # 2419
Company Name KWB OIL PROP MGT. INC.,
Well # (b) (9) [redacted]
Locati

TECHNICAL REVIEW

Type Injection Well: (EOR/SWD/HC Storage) (New/Conversion) (Active/Inactive)

Injection: (Continuous/Cyclic)

Approximate # days operating/year _____
Rate (B/D): Average _____ Maximum 94
Wellhead pressure (psi): Average _____ Maximum 0
Fluid: TDS _____ Sp. Gr. 1.1 (EST) Analyses included: (yes/no)
Source (formation name) _____

Geologic Data (all references to depths are below land surface)

Base of Historical Usable Water: 100 ft (BASED ON WATER WELL DATA @ 2 MILES TO THE NE)
Base of USDW and how determined: <130 ft (BASED ON WELL LOG (#1-A, SW/4))
Injection Interval: Top 1,695 ft; Bottom 1,702 ft; Effective Thickness _____
Formation name MISSISSIPPI Lithology LIME
Porosity (%) _____ Initial Reservoir Pressure _____ Date _____
Permeability (md) _____
Confining Zones: Thickness between injection zone and USDW _____
Lithology _____
Cumulative shale _____: thickest shale zone _____ (interval)

Well Data: (all references to depths are below land surface)

Surface Elevation: 856 ft (KB/GL) Total (Depth/Plugged Back Depth) 2,016 ft.
Date Drilled or to be drilled: 3/27/33 Date converted: 7/20/67
Type logs available on (this well/offset well): (By reference/included) _____

Test data: (By reference/included) _____

Construction:	Size (in)	Depth Interval	Sacks of Cement	Hole Size	Cement Interval	How Determined
Surface Csg.	10.00"	0-20'	0			
Intermediate Csg.	—	—	—	—	—	—
Long String Csg.	6.62"	0-1,580'	0			
Liner	5.50"					
Tubing	2.60"		Packer type and depth			1,530 ft

AOR (1/4 mile radius)

Map submitted: (yes/no) Tabulation of Wells Submitted: (yes/no)
Faults Located: (yes/no); (none Present/Distance from injection well _____)
Number of wells in AOR:
Total _____ (Abandon _____; Production _____; Injection _____)
Number of wells in zone of Endangering Influence: Total _____
Number of wells Requiring Corrective Action: Total _____ (list below)

Well	Type Well	Problem	Corrective Action Required

Maximum Injection Pressure Calculation Pm = (Frac Gradient - (0.433 X Sp.Gr.)) depth

Pm = (0.75 - (0.433 X 1.1)) X 1695 = 469 (psi)

Technical Review (Passed/Failed)

REPORTS A 5.5" LINEAR BUT DOESN'T STATE WHETHER IT WAS EVER CEMENTED